3. A method as defined in claim 1, said group being an additive group E(F_{2^n}) and said group operation being addition of points.

4. A method as defined in claim 1, said group being an additive group E(F_q), said group element being a point P with coordinates (x,y) on the elliptic curve, and said group operation being the scalar multiple kP of said point and an inverse element being the negative −P of said point.

5. A method as defined in claim 1, said integral value being a private key k.

6. A method of performing a selected group operation on a scalar and a selected element of said group, in a cryptographic processor, said method comprising the steps of :

   representing said scalar as a binary vector;

   recoding said binary vector to produce a signed digit representation of plus one and minus one digits;

   selecting each of said recoded bits sequentially and for each of said selected bits performing said group operation on an intermediate element to derive a new intermediate element; and adding or subtracting said selected element to said intermediate element in accordance with said sign if said digit being selected; and

   outputting said intermediate value as a result of said group operation.